Maryland Transit Administration Environmental Initiatives

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- 4. <u>Training</u>: MTA (1) is aggressively conducting SWPPP training; (2) ensures appropriate employees receive biannual HAZMAT training and; (3) is in the process of developing a thorough training guide.
 - A. Stormwater Pollution Prevention Plan (SWPPP) Training Course materials and attendance sheets
 - B. Hazardous Materials (HAZMAT) Awareness Training description and attendance sheets
 - C. UST Leak Detection Training Course materials
- 5. <u>Hazardous Waste</u>: MTA has instituted new policies designed to track hazardous waste manifests, and has addressed other hazardous waste compliance issues.
 - A. Hazardous Waste Inspection logs
- 6. <u>Tank Management</u>: MTA has conducted <u>tank tightness testing</u> on all but two USTs MTA-wide, and is actively addressing completion of testing. Results have been acted upon immediately. MTA also conducts daily visual inspections of all ASTs.
 - A. Non-Volumetric Tank Tightness Test Method (Vacuum)
- 7. <u>Tank Management and Replacement</u>: MTA is currently working on a <u>new Tank</u>
 <u>Management Plan</u> that will be complete within 60 days. MTA is in the process of removing and replacing tanks at its Washington Boulevard and Wabash Avenue facilities.
 - A. Fuel Management System and Fluid Storage Tank Monitoring and Inventory Control SOP
 - B. Notice to Proceed

- C. Storage Tank Replacement Progress Meeting report
- 8. <u>Tank Monitoring:</u> MTA is expediting the upgrade of its Electronic Tank Monitoring System.
- 9. <u>Standard Operating Procedures</u>: MTA is developing SOPs for multiple environmental management concerns, including issues such as UST management and waste management, in advance of formally instituting the EMS process.
 - A. Standard Operating Procedure Bus Operations guidelines
 - B. Standard Operating Procedure Hazardous Waste Recordkeeping guidelines
 - C. Standard Operating Procedure Hazardous Waste Determination, Storage and Labeling guidelines
- 10. <u>SWPPP and SPCC</u>: MTA has revised both SWPPP and SPCC plans based on EPA feedback and has resubmitted these plans.
- 11. <u>Site Investigation Plan</u>: MTA developed and submitted the Plan to MDE on June 28, 2006 to address a leak that occurred earlier that same month, and obtained MDE acceptance of the Plan on July 7, 2006.
 - A. Site Investigation Work Plan
 - B. Maryland Department of the Environment correspondence approving Site Investigation Work Plan
- 12. <u>Product Management</u>: MTA is evaluating its product storage and management system issues to minimize the potential for accidental releases.

1. <u>Communication</u>: MTA/MDOT is conducting weekly multi-disciplined roundtable meetings to address environmental issues and, through these meetings, is working on improving interdepartmental communication.

Internal MDOT/MTA communication:

Key, high-level MTA and MDOT HQ players meet weekly to identify and coordinate action items. The committee was established to:

- (1) address environmental compliance issues for the MTA,
- (2) avoid duplicating efforts between various MTA Departments,
- (3) troubleshoot and discuss ongoing work, and
- (4) discuss projects that include an environmental component.

Ron Keele, executive director of Office of Safety and Risk Management (OSRM), initiated these meetings. The meetings started on February 15, 2006, and by June became a weekly tool to assess progress and troubleshoot. A wide range of players attend these meetings, including representatives from OSRM, Versar, Procurement, Planning & Policy, Facilities Engineering, Bus Maintenance, Lightrail Operations, MARC/Commuter Bus, and Metro. This internal system of communication continues as a work in progress. MTA is making every effort to ensure communication issues are addressed quickly and thoroughly. In addition to improving intra-agency coordination of efforts, MTA is instituting a global system of tracking progress on environmental initiatives.

Communication with Regulators:

MTA has made an effort to contact Troy Jordan of EPA on a weekly basis commencing June 8, 2006 to provide Mr. Jordan with an update on the status of various tasks. MTA also regularly contacts the Maryland Department of the Environment (MDE) with questions and status updates to maximize compliance with State environmental requirements.

2. <u>Staffing</u>: MDOT has overcome significant obstacles to successfully hire new employees with environmental experience and responsibility.

Background:

MDOT has been operating under budgetary constraints that prevent it from creating new personnel identification numbers (PINs). In the face of this obstacle, MDOT sought legislative relief in the form of an exception to the hiring restriction. MDOT went so far as to enlist the Chesapeake Bay Foundation's help lobbying the Maryland Legislature for budgetary changes. This significant effort was successful and MDOT received authorization to hire three new employees with environmental experience and responsibility.

Action:

In July, MDOT hired two new employees with environmental experience who will help each MDOT agency, including MTA, address, plan for and monitor environmental compliance. They are Barbara Grey and Lester Facey. The Office of Safety and Risk Management (OSRM), the lead department in environmental compliance matters, will coordinate with Ms. Grey and Mr. Facey concerning environmental issues. Among other things, it is anticipated that these employees will oversee and assist in the development and implementation of an MDOT-wide Environmental Management System (EMS).

In addition, MTA has been granted a PIN for an environmental analyst, who will have the responsibility of assisting the OSRM team in analyzing and addressing environmental problems. MTA has selected a candidate, and expects this new environmental analyst to begin work in September of this year.

MTA has also obtained the ongoing assistance of an independent environmental consultant, Versar, Inc., in an effort to expedite environmental compliance issues. Versar has aided MTA with its ongoing efforts to ensure that it has effective contingency plans for each applicable MTA location, tank management plans, and global environmental management training to include SWPP, SPCC, HAZMATs, and to aid implementation of improved environmental practices.

3. <u>Funding:</u> MDOT is dedicating substantial funds for environmental compliance improvement projects.

MDOT has earmarked a total of \$24 M to address environmental compliance issues and put a permanent Environmental Management System (EMS) in place. This includes the following: For calendar year 2006, MTA committed approx \$400,000 for environmental compliance for various consultants. For FY 2006-2011, MTA has budgeted \$11.6 M for environmental compliance support. For FY 2006-2008, another \$12 M has been budgeted for UST removal. These budgeting decisions were made by MTA in the spring of 2005.

This money will be used to pay for the removal, maintenance, and installation of USTs, completion of the EMS Gap Analysis, design and implementation of the EMS, completion of compliance audits, and completion of an audit of the EMS.

4. <u>Training:</u> MTA (1) is aggressively conducting SWPPP training; (2) ensures that appropriate employees receive biannual HAZMAT training and; (3) is in the process of developing a thorough training guide.

MTA is aggressively conducting SWPPP training for all employees at MTA who handle chemicals or may otherwise serve as first responders to spills or other wastewater problems. To date, 433 of 750 identified employees, or 57%, have been trained. It is anticipated that all employees will complete this training by the end of the year. Attendance sheets are kept at the training sessions. Training materials are also given to all participants. (See <u>Tab A.</u>) MTA is committed to following the training regimen and to offer recertification in the future, as well as to offer training to new employees.

MTA provides its store room attendants with biannual HAZMAT training, which is conducted at the Maryland Fire and Rescue Institute (MFRI). Attendance is kept and course materials are used. (See <u>Tab B.</u>) MTA is planning to expand on HAZMAT training and provide this educational tool in-house. MTA has also developed, and is currently implementing, new Standard Operating Procedures (SOPs) for Hazardous Waste Recordkeeping and Determination, Storage and Labeling. (See <u>Tabs 8.B & 8.C.</u>)

Additionally, MTA is developing a comprehensive training guide to be included in the EMS. The training guide will include a matrix of employees with training needs and a detailed schedule sequence, including appropriate refresher courses. An example of such training is the newly developed and soon to be implemented UST Inventory Reconciliation training program. (See <u>Tab</u> <u>C</u>.)

MTA STORMWATER POLLUTION PREVENTION TRAINING COURSE





What is SWPPP?

Sormwater Pollution Prevention Plan

----acility Description

-Potential Sources of Pollution

-Potential Receiving Waters

Potential Contaminants by Drainage Area

Measures and Controls -



REGULATIONS

40 CFR 122.26



- COMAR 26.17.02
- COMAR 26.17.01-1
- www.dsd.state.md.us





Regulations - Federal

977741200行

- o Reciulates stormwater discharges
- 2 Permits
- Runoff pollutants
- Stormwater effluent limitations
- Stormwater controls
- Storm sewer systems and controls
- Management plans (SWPPP, SPCC)



Regulations - State

 Maryland's Stormwater Management Program (COMAR 26.17.02)

2000 Maryland Stormwater Design Manual (COMAR 26.17.02.01-1) General Discharge Permit for Storm Water
 Associated with Industrial Activities (Discharge Permit No. 02-SW)

ACTIVITIES SUBJEC TORMWATER OUALI



- Maintenance
- Painting
- Washing
- Loading/Unloading Materials
- Above-Ground Storage
- Erosion



Potential MTA Pollution Sources

- 500-Gallon single-walled diesel fue AST
- Gasoline Fueling Station (Concrete Pad)
- Outdoor Storage Area
- Used Lead-Acid Batteries Storage Area
- Uncovered and no Secondary 55-Gallon Drum Storage Area Containment)
- Bus parking Lot (fluid leaks from parked vehicles)



POTENTIAL WATER CONTAMINANTS

JOrganic substances

Oils & Grease

Polynuclear Aromatic

Hydrocarbons (PAHs)

– Fuel constituents

Inorganic substances

– Heavy metals (e.g., lead,

chromium)

- Acids (e.g., sulfuric acids

from batteries)

)



MEASURES AND CONTROLS *Best Management Practices

Unaterials Management Practices Soil Prevention and Response Jelon Housekeeping

- Preventive Maintenance
- Visual Inspections
- Sediment and Erosion Control
- Management of Runoff



GOOD HOUSEKEEPING

Implement careful material storage Oraldiges.

ITAN FLEX C

- Jechaelule routine cleanup Operations
- Jaintain well-organized work areas
- Maintain up-to-date material nventory
- Identify all chemical substances
- containers Label all

present



Organized work area

Material storage

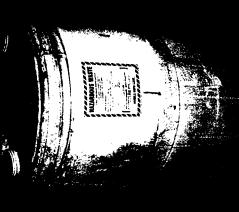
6





Good Housekeeping

- Sweeping Sweeping
- o Promit Clean up of spills
- Jelentification of fousekeeping & Spill Response Equipment
 - Displayed Signs
- Instruction on Securing Drums & Containers
- Schedule of Housekeeping Activities



SPILL PREVENTION & RESPONSE



- Identification of potential spill areas and drainage routes
- Reporting of spills to appropriate parties
- Specifying material handling procedures and storage requirements
- Implementing spill response procedures



MATERIALS MANAGEMENT PRACTICES

- o Meally organize materials for storage
- substances stored, handled, and produced Identify all toxic and hazardous onsite
- Discuss handling procedures for these materials



SPILL VS. RELEASE

A spill is contained within MTA property

release is a spill that has migrated off of MTA property boundaries.





SPILL VS. RELEASE

Petroleum & Hazardous materials that drips, leaks, spill, or ruptures from process/equipment/container

Y release is:

- Spills that go offsite via soil, air, or waterways
- UST/AST leaks, ruptures
- Spill hazardous material/waste during transport
- Leaking fuel at a bus accident scene



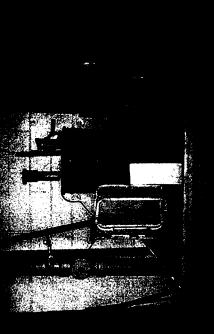


SPILL/RELEASE SCENARIOS

Jyehicle accident

Pouring from one container to another

Poor planning





SPILL vs. RELEASE

ンツに高声 is worse?

- ID gallons of diesel on the parking lot
- 10 gallons of diesel at a bus accident on the street?
 - of the two, which is easier contained?

Which is worse?

- An overflowing oil-water separator
- An oil water separator that received one gallon of gasoline
- Of the two, which is easier contained? Why?



SPILL RESPONSE RESPONDERS

JFIRERRESPONDER - Stops spill, mitigates spread of gontamination (i.e., defensive action only)

- Jezardous Materials Technician further Contains and cleans up spill
- On-Scene Incident Commander coordinates activities of First Responders and HazMat Technicians
- Supervisor until outside source arrives (e.g., HazMat team, Fire Commander)





RESPONDERS RESPONSIBILITY SPILL RESPONSE

o Ensure that release does not occur, recur, or soread to other areas

Supervisor provide for treatment, storage, disposal of recovered hazardous material

completed and emergency equipment is cleaned Supervisor ensures cleanup procedures are and fit for use before operations resume



SPILL RESPONSE INITIAL RESPONSE

UNIORITY Supervisor!

Supervisor will serve as the

On-Scene Incident Commander

(OSIC) until relieved by outside agency

(e.g., fire chief)

Use of PPE/available resources







PROVIDE INFORMATION SPILL ACTION

Jeller's identification

JESCIIIty Name

• Cation within facility

Time discovered

Type and estimated quantity



PROVIDE THE FOLLOWING INFORMATION (continued)

older of injuries

Status (absorbent applied?)

Fire or explosion involved?

Are storm sewer inlets or drains blocked?

Is off-site release involved or imminent?

TYPES OF RESPONSES



- Roll drums upright (hole pointing up)
 - Turn off process
- Shut pipe valves
- Contain spills
- Booms, pads, sand, dirt
 - Divert runoff from spills
- Apply temporary patch
- Recover/remove contaminated materials



EXAMPLE OF A RESPONSE

Oil Spill to Stream:

- Absorbent boom across the stream so floating oil will be contained.
- Skim, collect or otherwise remove the floating oil, sludge or emulsion deposited on the water surface and on the adjoining shorelines.

 Appropriate absorbent material shall be used to properly collect the material. PPE shall be used by employee performing the clean up.
- Place used absorbent materials and oil and sludge into appropriate containers for disposal (55 gallon steel drums for petroleum products).





Thanks!

Always remember, storm water pollution prevention is everyone's duty, not just

nanagement!



SUMMARY OF DATES/PARTICIPANTS

Initial Class:

12/29/2005

Last Class:

7/12/2006

NO.	DATE	CLASS	PARTICIPANTS
1	7/12/2006	8:30 a.m.	22
2	7/12/2006	9:45 a.m.	16
3	7/12/2006	11:00 a.m.	8
4	7/12/2006	12:45 p.m.	3
5	7/12/2006	2:00 p.m.	13
6	7/12/2006	3:15 p.m.	2
1	5/31/2006	9:00 p.m.	27
2	5/31/2006	10:00 p.m.	5
3	6/1/2006_	12:00 a.m.	15
4	6/1/2006	2:00 a.m.	2
5	4/27/2006	8:00 a.m.	10
6	4/27/2006	9:00 a.m.	21
7	4/27/2006	10:00 a.m.	4
8	4/27/2006	1:00 p.m.	11
9	4/27/2006	2:00 p.m.	3
10	4/27/2006	3:00 p.m.	3
11	3/29/2006	8:00 a.m.	21
12	3/29/2006	9:00 a.m.	15
13	3/29/2006	10:00 a.m.	21
14	3/29/2006	1:00 p.m.	15
15	3/29/2006	2:00 p.m.	17
16	3/29/2006	3:00 p.m.	18
17	3/15/2006	8:00 a.m.	3
18	3/15/2006	9:00 a.m.	4
19	3/15/2006	10:00 a.m.	0
20 ·	3/15/2006	1:00 p.m.	. 0
21	3/15/2006	2:00 p.m.	1
. 22	3/15/2006	3:00 p.m.	4
23	2/24/2006	3:00 p.m.	8
24	2/24/2006	12:00 p.m.	8
25	2/24/2006	9:00 a.m.	29
26	2/24/2006	6:00 a.m.	21
27	2/6/2006	11:00 p.m.	11
28	2/6/2006	9:00 p.m.	9
29	1/25/2006	1:00 p.m.	9
30	1/25/2006	10:00 a.m.	18
31	12/29/2005	1:00 p.m.	16
32	12/29/2005	10:00 a.m.	20

TOTAL TRAINED PRIOR: TRAINED 7/12/06:

TRAINED 7/12/06: 64
TOTAL TRAINED TO DATE: 433

369

Next Class Scheduled for:

8/16 & 8/17

Note: "Bold" reflects the most recent class offered.

M rael Klevenz

MTA STORMWATER POLLUTION PREVENTION PLAN (SWPPP) TRAINING COURSE SIGN IN SHEET

Date: JULY 12, 2006

Time: 8:30 AM CLASS

	NAME &	PAVROLL NUMBER	DEPAREMENT/LOCATION	Three
1	Leslie Lowe	63645	NW (Shop)	B-Cleaner
2	DONALD LEEKS	48061	N. West	Machonic
3	VIVIAN HARM'S	32355	N. West	B-Cleaner
4	Georgia Bowens	07173	NW	A' Cleaner
5	David Smith	73440	N/W	A-Rep.
6	Andrew low lotte	67358	N/W	A lep
7	Avon Byrd	11377*	wabash	A Rep
8	JACKIE DONALDSIN	20200 *	WABASH	ET
9	JETTARY FENNES!	23437	N/W	AREP
10	John Lorocha	45-439 *	Northwest	Superintonder
11	JEFF RICE	65127	N/W	BUS TEChNICIAN
12	Ahamad Kamjohn	63560 *	RCM	A" Mechanic
13	Peoples Dorothy	60211	$N.\omega$.	B-Cleaner
14		5(833 *	RCM	"A" C/EARER

J:\WP61\PKUMTA\Class 7-12-06 MTA SWPPP Sign In Sheet.doc

Date: JULY 12, 2006

Time: 8:30 AM CLASS

	NAMES.	PAYROLL NUMBER	DEPARTMENT/Location	Proce
15	ARNETT ONES	40326 *	WasasH Rail	TECHNICIAN
16	Ardre Duncan	20900	WARREN RAIL MAINT	Superissie
17	Roberto Romano	66976*	Warsh Rail Maint	Spruson
18	AJIT R' RUMTA	44609 *	WABASH RAIL !	"A' REPAIRMAN .
19	Martin J. Ibaniz	38390 *	WABASH. Rail	E.T.
20	Rudl Mitsell	54000 +	Nortusest	Reyairian
21	James Carter	12556:	WA hash RAIL	A Repairman
22	Debra Padro-Expcs	60030 *	Mahah Pal	1 / Darman
23				
24				
25				
26				
27				
28				

Date: JULY 12, 2006

Time: 9:45 AM CLASS

	Naws, 524	Pawrodi Number	DEPARTMENT/LOCATION	- Tiple
1	RAVI BAJPAI	* 02610	M.T.A. WABASH	REPAIRMAN
	CAROLYN CALdWell	52860	WabASH	Repairman
3	Julius Dows	20505	M.W.	A Repairmen
4	Dennis Crowl	17233	North West	A Repairmon
5	Mary Meth	52600	n/w	C. Repairsan
6	Constance Howard	36976	WA, bASA	Claner
7	ALONZO ROPET	67050	M/W	A. REPAIR MAN
8	Charles Abbery	00177	NW	"A Repairmens.
9	JAMES E, YITI	23032	Rem	A REPAIRMAN
10	Chris Alsına	01036	N/W	A REPairman
,11	Donald Mc Graw	51685	Wabash-SysMaint	Supervision
12	CLACETRA C. MOSS JT.	55010	WABASH SYSTEMS MAINT	
13		33262	wabash/syst.maint	Supervisor
14	ERIC HAWKIN'S E CARELLE CADRO	ra 11507	wasash	robody

Date: JULY 12, 2006

Time: 9:45 AM CLASS

are a	NAVVIE	PAVROHI NUMBER		Awai
15	STAN FLOOD	25575	NABASH RAIL	TECH
16	James Carter	25575 12559	N.W. SHOP	TECH "A Repair man
17		,	/	
18				
19			1	
20				
21				
22				
23				
24				
25				
26				
27				
28				

Date: JULY 12, 2006

Time: 11:00 AM CLASS

	NAVIE 9	PAYROUL NUMBER	DEPARTMENT/LOCATION	Time
1	J C Fields Sr.	23705	N/WEST	A-Dap
2	Kevinsimpson	72657	11	11
3	KENWIN BRANKER	07935	WABASH	<i>E</i> T.
4	GERARD TUERK	80348	WA BAS H	E.T.
5	DON HORRELL	36704	WABASH	E.T.
6	Revin Beown	09190	N/W	A Rep.
7	Kenneth Maraio	49852	N/w	A. Rep.
8	Rodney Williams	86082	W/w	A Rep.
9			,	,
10				
11		•.		
12				
13				
14				

Date: JULY 12, 2006

Time: 12:45 PM CLASS

	Ni-voit si	Payroll Nomber	DEPARTMENT/Location	Troug
1	WAYNE EVANS	22450	NW	AREPAIRMAN
2	thilip Hinton	35165	NW	A REPAIRMENT
3	Randy R Murdock	55423	NW	A Repairment A-Repairman
4			. ,	
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11				
12				
13				
14				

Date: JULY 12, 2006

Time: 2:00 PM CLASS

	, Novis	PAYROLL NUMBER	DEPARTMENT/LOCATION	THILE
1	Gary Thomas			
2	Larry Tie Mann	79155	474 - DAOC	Elocto. Mech
3	DAVID JAWORSK	39325	474 OC	ELECTRO- MECH
4	Philip Hume	37698	474 OC	Plumber
5	Larry Dans	20510	4740	ELECTO C MRCK
6	John F. Gabrisk	26415	464 BRAIL	A-Repairman
7	McAuliffe, Michael	50900	Wabash 464 Systems	Elect. Tech
8	William B. Johnson	40315	474 60	RLECTRICON
9 (PAUL HALL	31324		
10	SASON POLAL	७१५७७	WARISH SUSTAN	A PERRIRMAN
11	I what yourseld anged sale	201741	Systems Maint	57
12	Michael Tubrian	80176	464/Mtso	A-REPAIRM
13	MAURICE J BARIET	03660	464 / Mutos	Et
14			,	

Date: JULY 12, 2006 Time: 3:15 PM CLASS

V 1/2	Navyet 	PAYROEL NUMBER	DEEARTMENT/LOGATION	
1	Charles RJACKEN Jr Kennetll Walker	388/1	424 NW	A REPAIRMAN
2	KennetH WAlker	82272	424 NW	A REPAIRMAN
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5			,	
6				'
7				
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1'3				
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Example of Certificate



MTA Stormwater Pollution Prevention Plan Training Course

This is to certify that on July 12, 2006

Leslie Lowe

Successfully completed the classroom and practical course work thus fulfilling a Stormwater Pollution Prevention Plan (SWPPP) requirement as mandated by the General Discharge Permit for Storm Water Associated with Industrial Activities (Discharge Permit No. 02-SW).

Michael A. Klevenz, PE